## **CARE COMMITTEE**

MAY 1989

**GRAND CAL RIVER AOC** 



# CARE COMMITTEE MISSION STATEMENT

The purpose of the Citizen's Advisory for the Remediation of the Environment (CARE) Committee is to advise IDEM on development and implementation of the Remedial Action Plan (RAP) for the Grand Calumet River, Indiana Harbor Ship Canal and Nearshore Lake Michigan Area of Concern. CARE also will advise other agencies that work with IDEM to ensure consistency and adherence with the REMEDIAL ACTION PLAN and to ensure that these agencies promote the REMEDIAL ACTION PLAN. The REMEDIAL ACTION PLAN is a requirement of the 1987 Great Lakes Water Quality Agreement that mandates an ecosystem approach for restoring beneficial uses.

Specifically, the purpose of CARE is to:

- Advise IDEM on the REMEDIAL ACTION PLAN
- Review components of the REMEDIAL ACTION PLAN
- Advocate and encourage agencies' actions to be consistent with the REMEDIAL ACTION PLAN
- Review State resources pertaining to the REMEDIAL ACTION PLAN
- Advise IDEM on the adequacies of RAP components
- Recommend a time-line for implementation of the REMEDIAL ACTION PLAN
- Promote activities consistent with the REMEDIAL ACTION PLAN
- Monitor and track implementation, and suggest appropriate action

### REMEDIAL ACTION PLAN STAGE II

## INTERNATIONAL JOINT COMMISSION SUBMITTAL DOCUMENT

December 1997

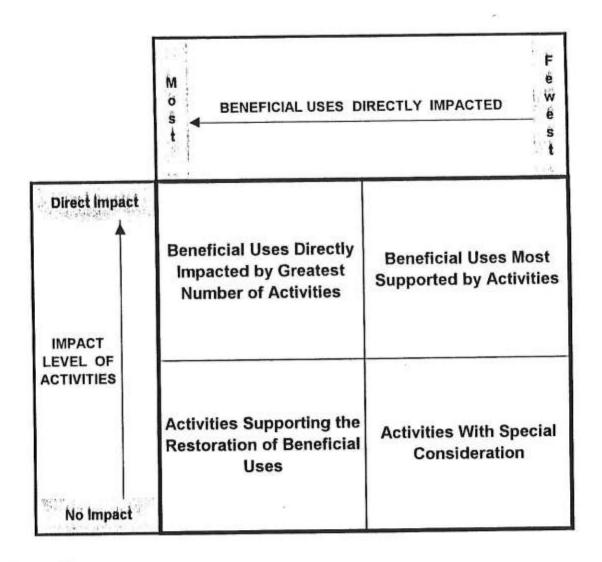
## ACTIVITIES & BENEFICIAL USES SORTED AND ARRANGED TO DETERMINE AREAS OF IMPACT LEVELS

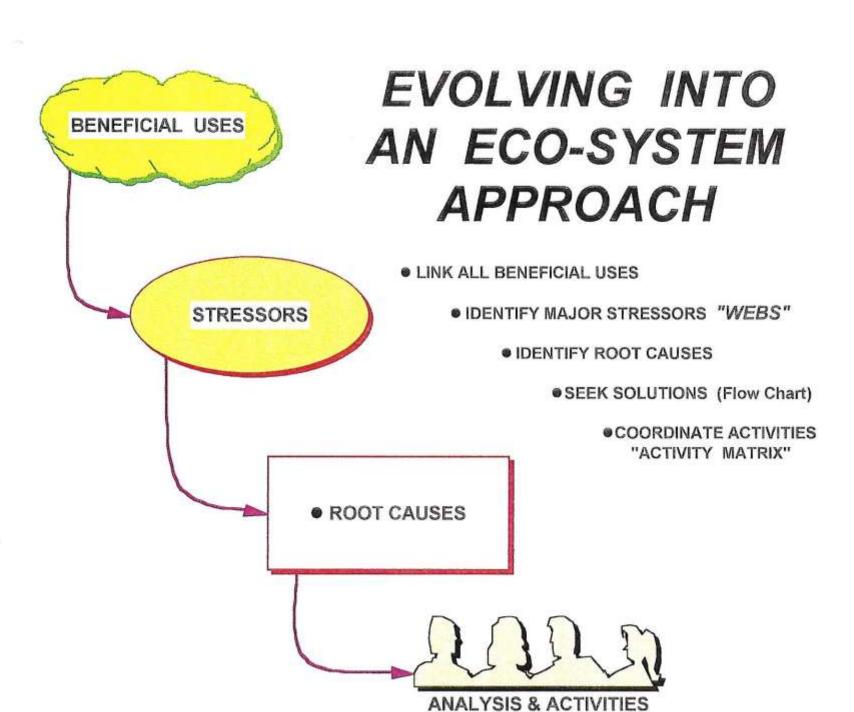
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	The state of the s																			
		11	14	3	5	2	1	4	6	9	7	13	8	12	10	OWNER or PRINCIPAL DRIVER ( Person or Organization)	PLANS IN PLACE (Yes, No or TBD)	INDICATORS ESTABLISHED (Yes, No or TBD)	D START DATE	
6.	Removal Action by LTV Stool	•	•	•	•	•	•		•	•	•	•	•	•	0	USEPA/LTV	Yes	Project Cor	mpleted	1997
15.	Superlund	•	•	•	•	•	•	•	•	•	•	•	•	•		USEPA	Yes	Yes	In Existence	Continu
3.	U.S. Steel (water decree)	•	•	•	•		•	•	•		•	•	•	•		USEPA	Yes	TBD	1998	Continu
	Inland Steel Sediment Characterization Study in the IHSC				•	•	•	•	•	•	•	•	•	•		USEPA/ INLAND	Yes	Yes	1997	Continu
1.	Natural Resource Damage Assessment	•	•	•	•	•	•	•	•	•	6	•	•	0	0	IDEM / IDNR / USPWS / NOAA / NPS	Yes	TBD	1996	Continu
8.	U.S. Army Corps of Engineers' Indiana Harbor and Canal Dredging Project	•	•	•	•	•	•	•	•	•	•	0	•	•	0	ACoE	Yes	TBD	1972	203
25h,	Prevent and Clean Up Contaminated Sites	•		•	•	•	•	•	0	•	0		•	•	•	IDEM/USEPA	Yes	2 Yr. EnPPA	To be Negotated	To b Negoti
4.	U.S. Steel (sediment)	•	•	•	•	•	•	•	•	•	•	•	•	0		USEPA/USS	Yes	TBD	1998	200
7.	Gary Sanitary District (GSD)	•	•	•	•	•	•	•	•	•	•	•	•	0		USEPA/IDEM/ GSD	/ No	No	TBD	тв
8.	Amoco Soil characterization Work Plan and Ground Water Evaluation	•	•	•	•	•	•	•	•	•	•	•	•	0		IDEM / AMOCO	Yes	Yes	1991	Contin
9,	Amoco Agreed Order	•	•	•	•	•	•	•	•	•	•	•	•	0		IDEM / AMOQO	Yes	Yes	In Existence	202

Voluntary Action Initiated Through the RAP Voluntary Action Supporting RAP Goals Federal, State & Local Actions Supporting the RAP The Environmental Performance Partnership Agreement Administrative & Agreed Orders; Consent Decrees Supporting RAP

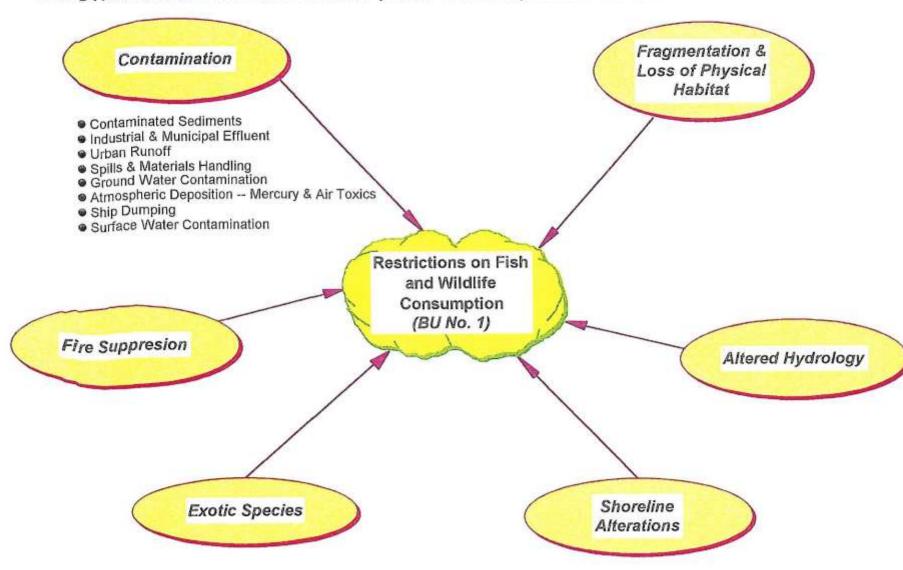
Additional Actions Necessary to Delist

## MATRIX ANALYSIS





## THE STRESSORS & THEIR SOURCES (ROOT CAUSES) WHICH IMPAIR THIS BENEFICIAL USE

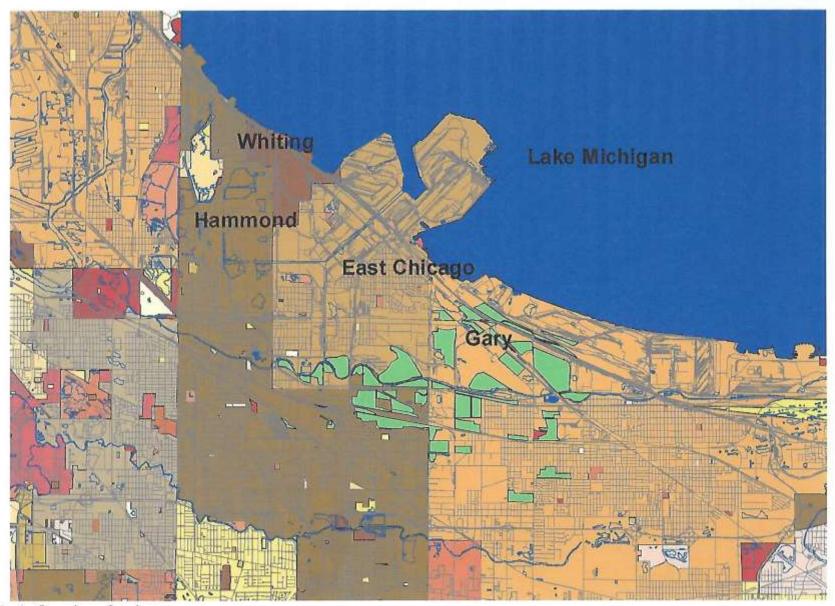


NOTE: Mercury and PCB's are the primary pollutants of concern

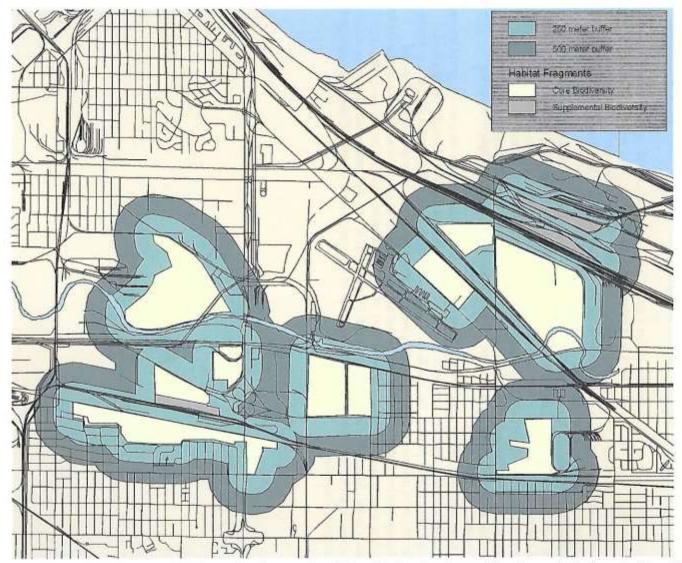
## Remedial Action Plan Stage II.V Working Documents

September, 1998

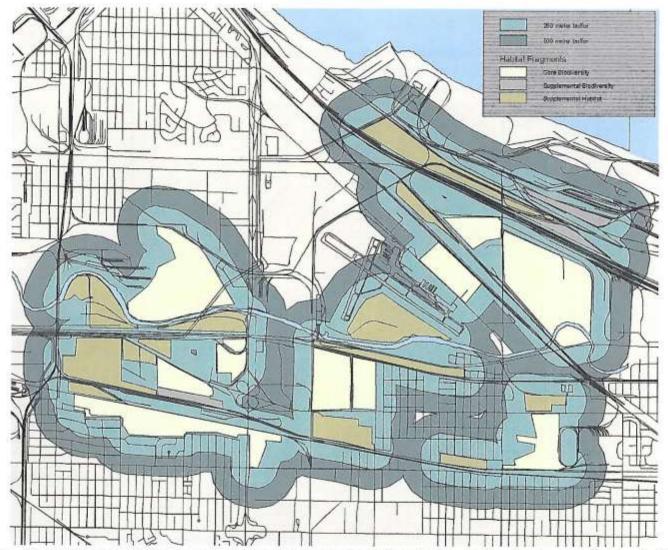




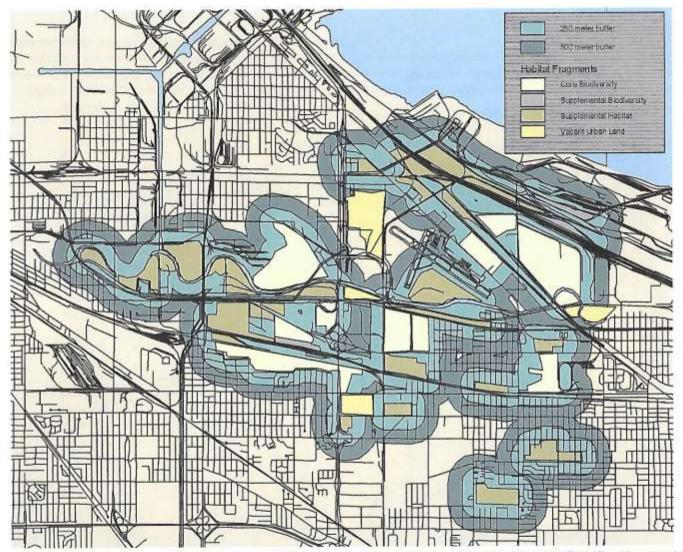
Map1. Overview of study area.



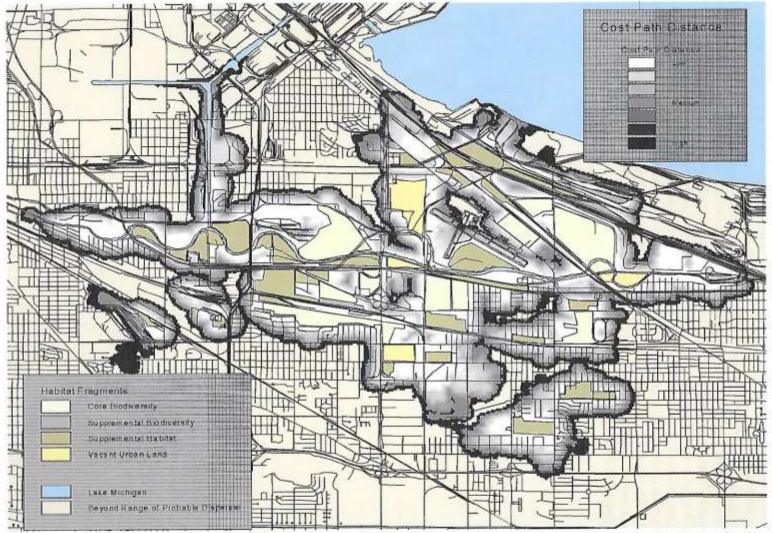
Map 3. Illustrates concentric 250 meter and 500 meter bands around each Core Biodiversity Site and Supplemental Biodiversity Site within 500 meters of a core site. This map clearly illustrates the potential range of connectivity between such sites. Core sites located within 500 meter of each other are likely to have adequate connectivity to sustain gene flow and metapopulation dynamics for many species.



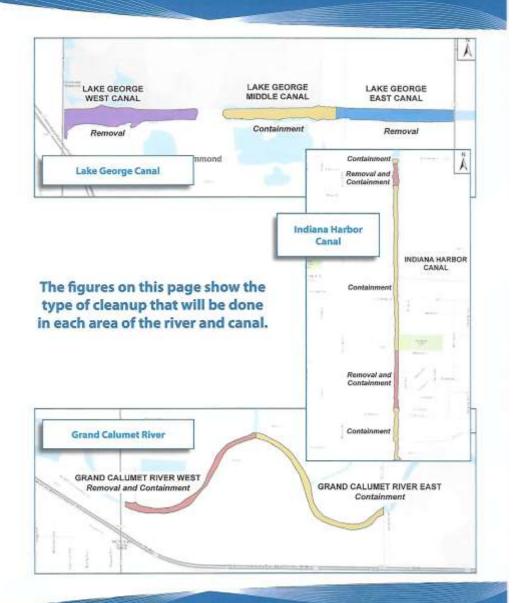
Map 4. Illustrates concentric 250 meter and 500 meter bands around each Core Biodiversity Site, Supplemental Biodiversity Site, and Supplemental Habitat within 500 meters of a core site. Core sites located within 500 meter of each other are likely to have adequate connectivity to sustain gene flow and metapopulation dynamics for many species. This map clearly illustrates improved connectivity and expanded range for the conservation targets with the addition of selected Supplemental Habitat.



Map 5. Illustrates concentric 250 meter and 500 meter bands around each Core Biodiversity Site, Supplemental Biodiversity Site, and Supplemental Habitat. Core sites located within 500 meter of each other are likely to have adequate connectivity to sustain gene flow and metapopulation dynamics for many species. This map clearly illustrates improved connectivity and expanded range for the conservation targets with the addition of all Supplemental Habitat identified in this plan.



Map 6. Illustrates least-cost paths optimized for aquatic/terrestrial vertebrates such as Blanding's turtle and spotted turtle. It may also have validity for other animals likely to disperse along wetlands and aquatic habitats, such as dragonflies and damselflies. Lighter areas represent likely migration corridors, while black delineates maximum dispersal distance. As this figure illustrates, the Calumet River may serve as an excellent east-west corridor for dispersal for such animals. The Calumet River corridor may be especially useful for connectivity between habitats north east of the airport and those to the west.



### **Project funding**

#### Funding planning and design

In December of 2013, the District signed a Project Agreement with EPA under the Great Lakes Legacy Act. The purpose was to study, propose options and select a cleanup design of polluted sections of the Grand Calumet River and Indiana Harbor Ship Canal.

#### Funding a cleanup

Moving forward, a new Project Agreement must be signed to fund the cleanup of the waterways. The project team is looking for partners. Anyone interested in entering into a partnership agreement should contact Fernando M. Treviño, ECWMD Executive Director, at 219-741-7714 (mobile), or fratconsulting@aol.com or Brenda Jones, 312-886-7188, or jones.brenda@epa.gov.

## Cleanup schedule

EPA and its project partners will decide on the cleanup schedule once funding for the project is available

At this time, the District and EPA will plan meetings to give more information about future activities.

Under the GLLA, EPA can provide up to 65 percent of the cost of sediment cleanup and restoration work. The rest comes from cities, states, businesses and other nonfederal partners. EPA's partners can provide funding as money or as allowable "in-kind" contributions. In-kind contributions are services or products provided by an organization, such as property access, water treatment or landfill space.

#### The table below summarizes the action for each section and the estimated cost.

		East Cl	Hammond			
	Grand Calninet River East	Grand Calumet River West	Indiana Harbor Canal	Lake George Canal Fast Section	Lake George Canal Middle Section	Lake George Canal West Section
Action	Containment	Removal (32,000 cubic yards) and Containment	Removal (30,000 cubic yards) and Containment	Removal (60,000 cubic yards)	Containment	Removal (122,000 cubic yards)
Cost	\$6.2 million	\$9.9 million	\$15 million	\$8.2 million	\$9.7 million	\$11.8 million

#### For more information

Project-related documents are available on the Web; www.in.gov/ecwmd/

For more information on other sediment work in the Grand Calumet River visit www.greallakesmud.org.